

PROJECT DESCRIPTION

I. GENERAL

This project involves the replacement of inductive loop presence detection with overhead video detection at the intersection of US-113 and MD 376 and installing non-invasive probes on US-113 for passage detection. This replacement is due to the upcoming milling and overlay project on MD 376.

II. INTERSECTION OPERATION

- The intersection will continue to operate in a NEMA (6) six-phase, semi-actuated mode, with the Northbound and Southbound left turns operating concurrently. Eastbound and Westbound movements operate concurrently as well. Firehouse pre-emption is also incorporated at this intersection.
- An existing NEMA full-traffic-actuate eight (8) phase controller housed in a NEMA size 6 base mounted cabinet shall be utilized at this location.

NOTES

- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The Contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- All existing traffic signal equipment removed shall become the property of the Contractor upon completion of the signal.
- The Contractor shall be responsible for identifying and labeling each existing cable utilizing the conduit between the signal cabinet and the nearest handhole and removing from all conduits, handholes, and the cabinet any unused cables prior to the installation of new cables. The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.

CONTACTS

DISTRICT

MR. DONNIE L. DREWER  
DISTRICT ENGINEER  
410-677-4006

MR. KENNETH CIMINO  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
410-677-4040

MR. BRUCE W. POOLE  
UTILITY ENGINEER  
410-677-4082

MR. GREG HOLSEY  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
410-677-4020

MR. WAYNE WEICHMAN  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
410-677-4010

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.  
CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS  
410-787-7630

MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
410-787-7650

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
410-787-7670

MS. DARLENE EIDE  
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)  
410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9086	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4	EA	1

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

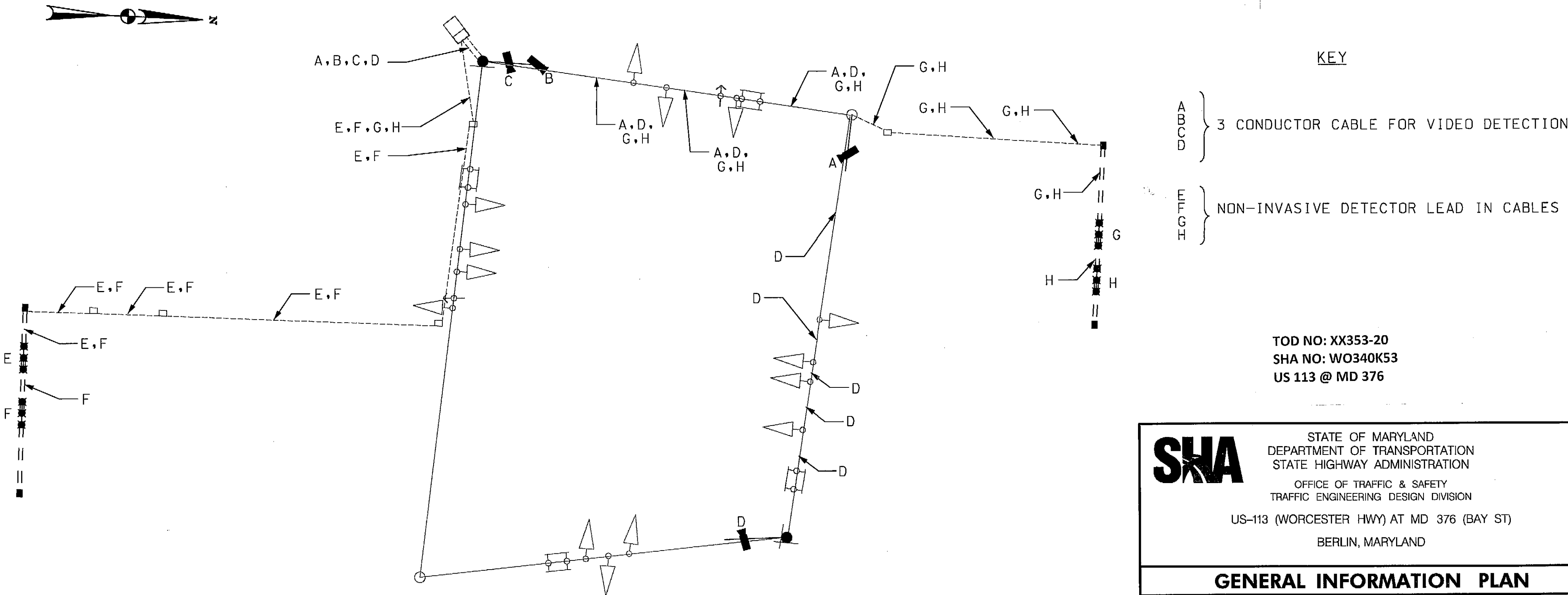
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1003	MAINTENANCE OF TRAFFIC PER ASSIGNMENT	EA	1
8005	ADJUST HANDHOLE TO GRADE INCLUDING COLLAR	EA	7
8007	ANY SIZE LIGHTING ARM ON SIGNAL STRUCTURE (FOR VIDEO DETECTION)	EA	3
8023	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000'	EA	2
8024	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
8028	VIDEO DETECTION CAMERA AND CABLE (ANY LENGTH)	EA	4
8034	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	120
8041	WEATHERHEAD, UP TO 3 INCH	EA	1
8044	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	4

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 AND 5	←G←	←G←	R	R	←G←	←G←	R	R	R	R	R	R	R	R
1 AND 5 CHANGE MAY CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6														
PHASE 1 AND 6	←G←	←G←	G	G	←R←	←R←	R	R	R	R	R	R	R	R
1 CHANGE	←Y←	←Y←	G	G	←R←	←R←	R	R	R	R	R	R	R	R
PHASE 2 AND 5	←R←	←R←	R	R	←G←	←G←	G	G	R	R	R	R	R	R
5 CHANGE	←R←	←R←	R	R	←Y←	←Y←	G	G	R	R	R	R	R	R
PHASE 2 AND 6	←R←	←R←	G	G	←R←	←R←	G	G	R	R	R	R	R	R
2 AND 6 CHANGE	←R←	←R←	Y	Y	←R←	←R←	Y	Y	R	R	R	R	R	R
PHASE 4 AND 8	←R←	←R←	R	R	←R←	←R←	R	R	G	G	G	G	G	G
4 AND 8 CHANGE	←R←	←R←	R	R	←R←	←R←	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R
FIREHOUSE PRE-EMPTION PHASE 1 & 6	←G←	←G←	G	G	←R←	←R←	R	R	R	R	R	R	R	R
PRE-EMPTION CLEARANCE	←Y←	←Y←	Y	Y	←R←	←R←	R	R	R	R	R	R	R	R
PHASE 2 & 6 NORMAL OPERATION	←R←	←R←	G	G	←R←	←R←	G	G	R	R	R	R	R	R
FIREHOUSE PRE-EMPTION PHASE 4	←R←	←R←	R	R	←R←	←R←	R	R	R	R	R	G	G	G
PRE-EMPTION CLEARANCE	←R←	←R←	R	R	←R←	←R←	R	R	R	R	R	Y	Y	Y
PHASE 2 & 6 NORMAL OPERATION	←R←	←R←	G	G	←R←	←R←	G	G	R	R	R	R	R	R

WIRING DIAGRAM



TOD NO: XX353-20  
SHA NO: W0340K53  
US 113 @ MD 376

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US-113 (WORCESTER HWY) AT MD 376 (BAY ST)  
BERLIN, MARYLAND

GENERAL INFORMATION PLAN

SCALE 1" = 20' DATE 9/01/10 CONTRACT NO. XX3535168

DESIGNED BY K. OWENS COUNTY WORCESTER  
DRAWN BY K. OWENS LOGMILE 23011328.08  
CHECKED BY A. GRIFFIN, PALADUCCI, J. TIMS NO. J797  
F.A.P. NO. TOD NO.

TS NO. 1739 E DRAWING pSG OF NOO1 SHEET NO. 2 OF 2